

Title (en)
EMBOSSING OF BANKNOTES OR THE LIKE WITH SECURITY DEVICES

Title (de)
PRÄGEN VON WERTSCHEINBOGEN MIT ECHTHEITSMERKMALEN

Title (fr)
ESTAMPAGE DE BILLETS DE BANQUE OU AUTRES AVEC DES DISPOSITIFS DE SECURITE

Publication
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Application
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Priority
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Abstract (en)
[origin: US5915731A] PCT No. PCT/AU94/00302 Sec. 371 Date Dec. 7, 1995 Sec. 102(e) Date Dec. 7, 1995 PCT Filed Jun. 6, 1994 PCT Pub. No. WO94/29119 PCT Pub. Date Dec. 22, 1994A security document or token such as a banknote (40) is provided which has a transparent portion (42) of plastics material which includes a security device (50). The region (44) surrounding the transparent portion (42) and preferably all the remaining part of the banknote (40) is printed with indicia. The security device (50) includes regions (52, 54, 56 and 58) of embossed lines extending at different angles to each other defining different shapes that are visible to a greater or lesser extent upon transmission and reflection of light as the note is tilted, rotated or viewed from different angles relative to a light source. The embossed lines in some of the regions (52 and 54) are finer than coarser and deeper and more widely spaced lines in the other regions (56 and 58). The coarser, deeper lines are of such a thickness and width to be detected by touch in addition to being visible by the naked eye. There is also provided a method of and apparatus for producing a banknote with a security device in accordance with the invention in which the transparent portion of the note is embossed during an intaglio printing process.

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B42D 15/00; **B41M 1/24**; **B41F 19/04**

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Citation (examination)
• AU 558476 B2 19870129 - COMMW SCIENT IND RES ORG
• US 4715623 A 19871229 - ROULE RICHARD L [US], et al
• AU 488652 B2 19760401 - COMMW SCIENT IND RES ORG
• EP 0194042 A2 19860910 - BRADBURY WILKINSON CHEQUES [GB]
• WO 9216378 A1 19921001 - DE LA RUE HOLOGRAPHICS LTD [GB]
• US 4564409 A 19860114 - KUHL ADOLF [CH]

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WO 9429119 A1 19941222; AT E209576 T1 20011215; CA 2164629 A1 19941222; CA 2164629 C 20010410; CN 1048215 C 20000112; CN 1124940 A 19960619; DE 69429266 D1 20020110; DE 69429266 T2 20020704; DE 69429266 T3 20071004; DK 0710183 T3 20020318; EP 0710183 A1 19960508; EP 0710183 A4 19960807; EP 0710183 B1 20011128; EP 0710183 B2 20070328; ES 2167366 T3 20020516; FI 110927 B 20030430; FI 955882 A0 19951207; FI 955882 A 19951207; JP 2003094870 A 20030403; JP H08510967 A 19961119; KR 100279937 B1 20010402; NO 954908 D0 19951204; NO 954908 L 19951204; NZ 267032 A 19961126; PT 710183 E 20020531; SG 44393 A1 19971219; US 5915731 A 19990629

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